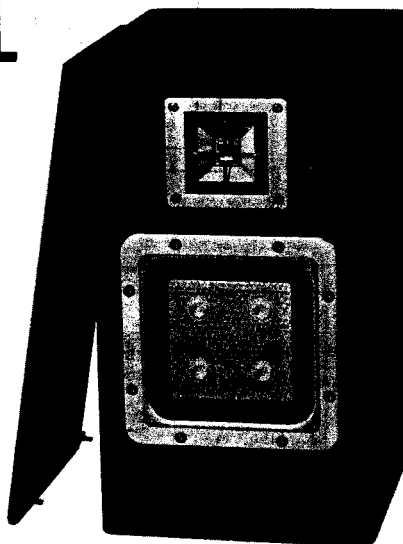


# APM-22ES

7298

## SERVICE MANUAL

AEP Model  
UK Model  
E Model



### SPECIFICATIONS

**Speaker system:** 2-way speaker system  
**Speaker units:** Woofer: 290 cm<sup>2</sup> (45 in<sup>2</sup>), APM type  
Tweeter: 9 cm<sup>2</sup> (1.4 in<sup>2</sup>), APM type  
**Enclosure type:** Bass reflex type  
Removable front grille  
**Finish:** Grained vinyl of walnut, ebony or black vinyl  
(AEP, UK model)  
Grained vinyl of walnut (E model)  
**Volume:** 34 liters  
**Nominal impedance:** 6 ohms  
**Power handling capacity:** Nominal 80 W DIN 45500  
Maximum 160 W DIN 45500

**Sensitivity:** 88 dB (1 W, 1 m)  
6.3 W (96 dB, 1 m) DIN 45500  
**Frequency range:** 40 Hz–20,000 Hz  
**Crossover frequency:** 2,000 Hz  
**Dimensions:** Approx. 290 x 515 x 320 mm (w/h/d)  
(11<sup>1</sup>/<sub>2</sub> x 20<sup>3</sup>/<sub>8</sub> x 12<sup>5</sup>/<sub>8</sub> inches)  
including front grille  
**Weight:** Approx. 10.5 kg (23 lb 3 oz)  
net, including front grille  
(per speaker)  
AEK, UK model: Approx. 24.0 kg (52 lb 15 oz)  
in shipping carton  
(two speakers)  
E model: Approx. 14.0 kg (31 lb 14 oz)  
net, including front grille  
(per speaker)  
Approx. 31.0 kg (68 lb 6 oz)  
in shipping carton  
(two speakers)

### MODEL IDENTIFICATIONS

— Specification Label —

<b>SONY.</b>	MODEL NO. APM-22ES
<b>SPEAKER SYSTEM</b>	
IMPEDANCE: 6 Ω	
POWER HANDLING CAPACITY: NOMINAL 80 W DIN	
MUSIC 160 W DIN	
SERIAL NO.	
<div style="border: 1px solid black; height: 20px; width: 250px;"></div>	

AEP, UK model: MADE IN W. GERMANY  
E model: MADE IN JAPAN



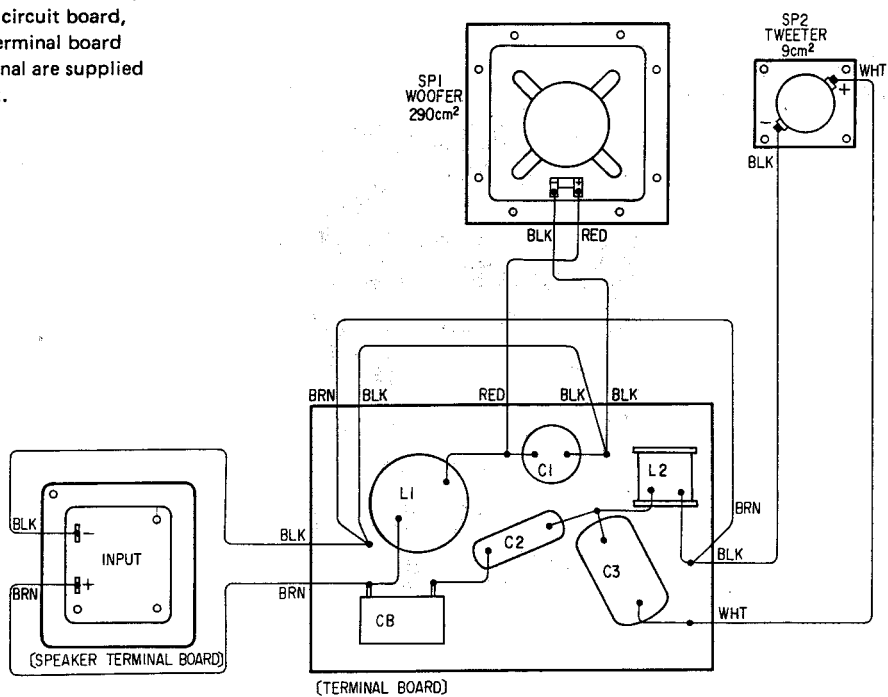
SPEAKER SYSTEM  
**SONY**®

**AUD**

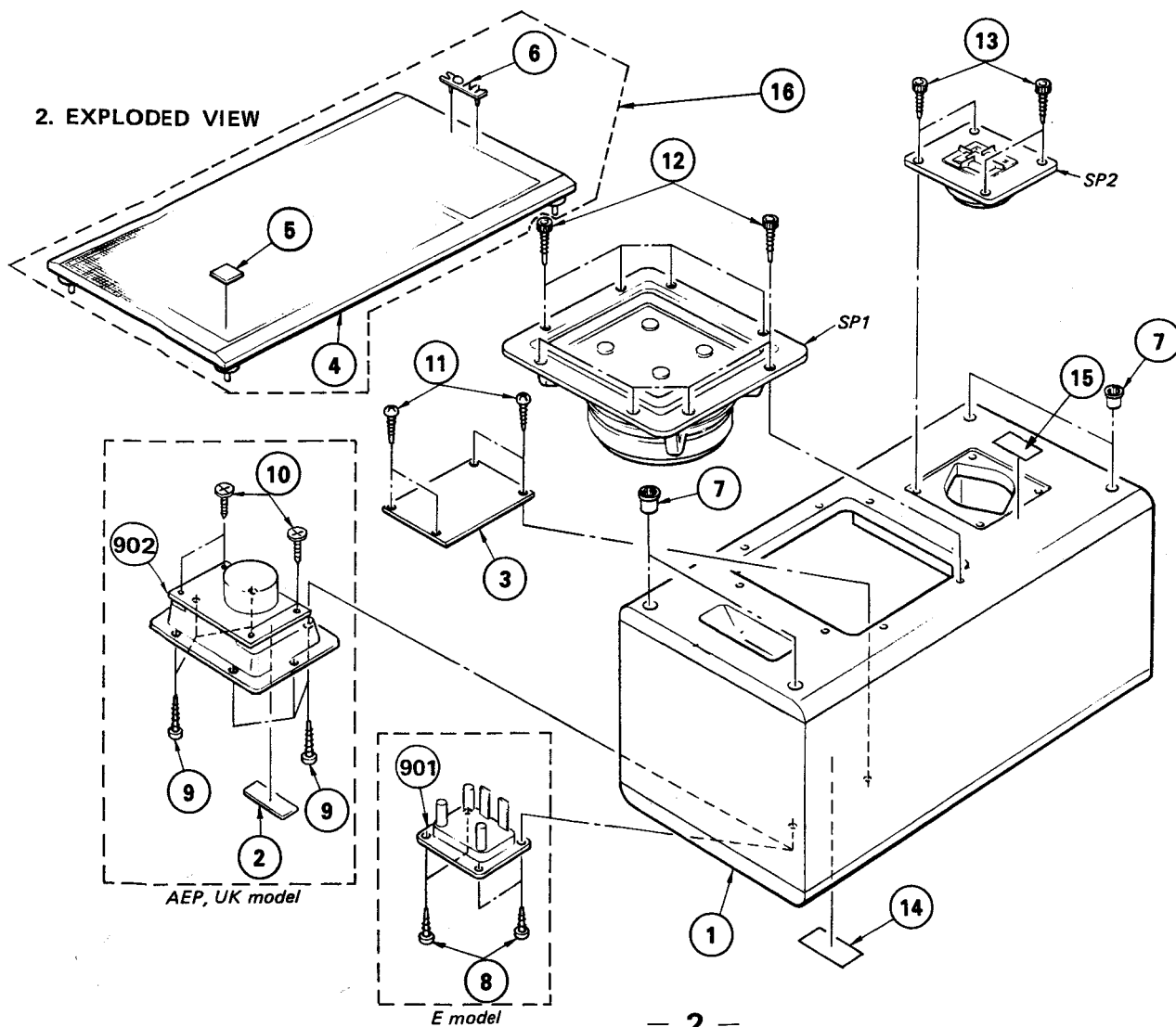
7298

## 1. WIRING DIAGRAM (E model)

**Note:** For AEP and UK model, complete circuit board, speaker terminal board and terminal are supplied as a block.



## 2. EXPLODED VIEW



## 3. PARTS LIST

### (E model)

GENERAL SECTION		
No.	Part No.	Description
1	*X-4905-704-1	CABINET ASSY, SPEAKER
2	.....	
3	*4-905-724-01	TERMINAL BOARD
4	X-4905-702-1	FRAME ASSY, GRILLE
5	4-905-701-01	EMBLEM, APM
6	3-548-973-00	EMBLEM, SONY
7	4-886-220-11	CATCHER
8	4-874-614-11	SCREW (4)(3.5X14), TAPPING
9	.....	
10	.....	
11	7-621-843-55	SCREW, WOOD +R 3.1X20
12	4-874-517-11	SCREW, TAPPING, HEXAGON HOLE
13	4-849-042-21	SCREW (A)(DIA. 5), TAPPING
14	*4-905-722-01	LABEL, MODEL NUMBER
15	4-905-718-11	EMBLEM, BAFFLE BOARD
16	.....	

### ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
21	1-556-650-00	CORD, SPEAKER CONNECTION
22	3-701-020-00	BAG, CHECK SHEET
23	3-760-158-11	MANUAL, INSTRUCTION
24	*4-875-621-00	LABEL, CAUTION
25	4-905-714-01	INDIVIDUAL CARTON
26	4-905-716-01	BOARD, BOTTOM
27	4-905-717-01	PARTITION
28	4-866-415-00	BAG, PROTECTION
29	4-886-316-00	CUSHION

### ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	1-536-810-31	TERMINAL BOARD (SPEAKER)
902	.....	
C1	1-124-620-00	CAP, ELECT (NONPOLAR)15MF 10% 50V
C2	1-136-310-00	CAP, POLYESTER FILM 6.8MF 10% 250V
C3	1-130-092-00	CAP, POLYESTEL FILM 10.0MF 10% 250V
CB	1-532-664-00	CIRCUIT BREAKER (1.25A)
L1	1-459-588-11	COIL, NETWORK (2.2MMH)
L2	*1-459-430-00	COIL, NETWORK (0.47MMH)
SP1	8-927-175-00	SPEAKER UNIT (WOOFER)
SP2	8-927-197-00	SPEAKER (TWEETER)

### (AEK, UK model)

GENERAL SECTION		
No.	Part No.	Description
1	T-8150-144-A	(WALNUT)...BOX ASSY, SPEAKER
1	T-8150-145-A	(EBONY)...BOX ASSY, SPEAKER
1	T-8150-152-A	(BLACK)...BOX ASSY, SPEAKER
2	T-8150-408-1	LABEL, MODEL NUMBER
3	.....	
4	.....	
5	.....	
6	.....	
7	4-849-034-03	CATCHER
8	.....	
9	6-020-111-20	TAPPING SCREW +RK 2, 9X13
10	4-874-614-11	SCREW (4)(3.5X14), TAPPING
11	.....	
12	T-8150-475-1	HEXAGON HEAD SCREW 4.2X25
13	T-8150-475-1	HEXAGON HEAD SCREW 4.2X25
14	.....	
15	.....	
16	T-8150-147-A	(WALNUT).....FRAME ASSY, GRILLE
16	T-8150-153-A	(BLACK,EBONY)...FRAME ASSY, GRILLE

### ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
21	T-8150-472-1	MANUAL, INSTRUCTION

### ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	.....	
902	T-8150-148-A	(WALNUT,EBONY)...NETWORK ASSY
902	T-8150-149-A	(BLACK).....NETWORK ASSY
SP1	8-927-175-00	SPEAKER (WOOFER)
SP2	8-927-177-00	(BLACK).....SPEAKER (TWEETER)
SP2	8-927-197-00	(WALNUT,EBONY)...SPEAKER (TWEETER)

### NOTE:

Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS:  
MF:μF, PF:μuF.

# APM-22ES

## SERVICE MANUAL

US Model  
AEP Model  
UK Model  
E Model

## SUPPLEMENT

File this supplement with the Service Manual.

No. 2  
November, 1986

Subject: • Black type has been added to UK model.  
• Circuit breaker and tweeter have been changed in US and E model.

1. Add the following parts in the Service Manual.

Page 3

(AEP, UK model)  
GENERAL SECTION

<u>No.</u>	<u>Part No.</u>	<u>Description</u>
1	T-8150-146-A	(BLACK: UK) ..... BOX ASS'Y, SPEAKER

Page 3

ELECTRICAL PARTS

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
902	T-8150-148-B	(BLACK: UK) ..... NETWORK ASS'Y
SP2	8-927-290-00	(BLACK: UK) ..... SPEAKER (TWEETER)

2. Following parts have been changed.

Page 3

(US, E model)  
ELECTRICAL PARTS

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
CB	1-532-680-00	CIRCUIT BREAKER (1A)
SP2	8-927-290-00	SPEAKER (TWEETER)

Sony Corporation

SPEAKER SYSTEM  
**SONY**®

**AUD**

English  
86K0251-1  
Printed in Japan  
© 1986

# APM-22ES

## SERVICE MANUAL

*US Model  
AEP Model  
UK Model  
E Model*

## SUPPLEMENT

File this supplement with the Service Manual.

**Subject: Black type has been added in US model.**

Add the following parts in the Service Manual.  
Other parts are the same as those of walnut type.

### GENERAL SECTION

<u>No.</u>	<u>Part No.</u>	<u>Description</u>
1	X-4905-704-2	(BLACK) ..... CABINET ASSY, SPEAKER
4	X-4905-702-2	(BLACK) ..... FRAME ASSY, GRILLE
7	4-886-220-00	(BLACK) ..... CATCHER